

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

US Ply, Inc. 2000 E. Richmond Ave. Fort Worth, TX 76104

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: US Ply APP Modified Bitumen Roofing Systems Over Recover Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 22.

The submitted documentation was reviewed by Alex Tigera. ALFAN



NOA No.: 10-1123.10 **Expiration Date: 03/28/18** Approval Date: 03/28/13

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ROOFING ASSEMBLY NOTICE OF ACCEPTANCE

<u>Category:</u> Roofing

Sub-Category: Modified Bitumen

Material: APP
Deck Type: Recover
Maximum Design Pressure: -262.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	<u>Dimensions</u>	Test <u>Specification</u>	Product <u>Description</u>
USP Base Sheet	36" x 108'	ASTM D 4601	An asphaltic, fiberglass reinforced base sheet
USP NVB	36" x 36'	ASTM D 4897 Type II	Fiberglass reinforced venting base sheet.
USP Type IV	36" X 180'	ASTM D 2178	An asphaltic, fiberglass reinforced, ASTM D2178 Type IV ply sheet.
USP Type VI	36" X 180'	ASTM D 2178	An asphaltic, fiberglass reinforced, ASTM D2178 Type VI ply sheet.
USP APP 160S	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade S	Polyester reinforced, smooth surfaced, APP modified bitumen base / interply sheet.
USP APP 160S Plus	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade S	Torch applied, smooth surfaced, polyester reinforced, APP modified bitumen membrane
USP APP 160M	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade M	Polyester reinforced, mineral granule surfaced, APP modified bitumen cap sheet.
SafeWeld 180S APP	39-3/8 x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced APP modified bitumen membrane with talc underside.
SafeWeld 180M APP	39-3/8 X 32' 9"	ASTM D 6222 Type I, Grade G	Smooth surfaced, polyester reinforced APP modified bitumen membrane with slag underside.
SafeWeld 180FR APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade G	Granule surfaced, polyester reinforced, fire resistant, APP modified bitumen membrane with slag underside.
DuraWeld 4S APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced, APP modified bitumen base / interplay sheet.
DuraWeld 5S APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced, APP modified bitumen base / interplay sheet.
DuraWeld 4M APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade G	Polyester reinforced, granule surfaced APP modified bitumen cap sheet.
DuraWeld 4M FR APP	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade G	Polyester reinforced, mineral granule surfaced, fire resistant, APP modified bitumen cap sheet.



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APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	Product Description	<u>Manufacturer</u> (With Current NOA)
ENRGY 3, PSI-25, JM ISO 3	Isocyanurate Insulation.	Johns Manville Corporation
FescoBoard	Rigid perlite roof insulation board.	Johns Manville Corporation
Multi-Max-3, Multi-Max FA-3	Polyisocyanurate Insulation	Rmax Operating, Inc.
H-Shield, Tapered H-Shield, H-Shield CG	Polyisocuanurate foam insulation	Hunter Panels, LLC
ACFoam-III, ACFoam-III	Polyisocyanurate Insulation	Atlas Roofing Corporation
ACFoam-IV	Polyisocyanurate insulation with a coated glass mat.	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
DensDeck, DensDeck Prime, DensDeck DuraGuard Overlayment Board	Water resistant gypsum board	Georgia-Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum LLC
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
Approved XPS	Closed-cell, extruded polystyrene insulation	Generic
Insulfoam EPS	Closed-cell, expanded polystyrene board	Insulfoam LLC



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APPROVED FASTENERS:

TABLE 3

<u>Fastener</u> <u>Number</u>	<u>Product</u> <u>Name</u>	<u>Product</u> <u>Description</u>	Dimensions	Manufacturer (With Current NOA)
1.	Twin Loc-Nail	Preassembled glavalume steel fastener/plate unit.	Various	ES Products, Inc.
2.	PlyFast Double Lock Nail E	Preassembled glavalume steel fastener/plate unit.	Various	U.S. Ply, Inc.
3.	FM-75, FM-90	Base ply fasteners.	Various	ES Products, Inc.
4.	PlyFast 1.7" Base Ply Fastener E	Galvanized steel fastener	Various	U.S. Ply, Inc.
5.	OMG Heavy Duty	Self drilling fastener for steel used wood, steel or concrete decks	Various	OMG, Inc.
6.	3 in. Round Metal Plate	Insulation fastening plate	3" Round	OMG, Inc.
7.	Trufast 3" Metal Insulation Plate	Galvalume steel stress plate	3" Diameter	Altenloh, Brinck & Co. US., Inc.
8.	Trufast #14 HD Fasteners	Self-drilling, coated, carbon steel fastener used in concrete, steel and wood decks.	Various	Altenloh, Brinck & Co. US., Inc.
9.	PlyFast #14 Fastener T	Fastener used in steel, concrete and wood decks.	Various	U.S. Ply, Inc.
10.	PlyFast 3" Metal Plate T	Galvalume steel stress plate	3" Diameter	U.S. Ply, Inc.
11.	PlyFast #14 Fastener O	Self drilling fastener for steel used wood, steel or concrete decks	Various	U.S. Ply, Inc.
12.	PlyFast 3" Metal Plate O	Insulation fastening plate	3" Round	U.S. Ply, Inc.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corp.	3020703	FM 4470	07/30/04
1	3014751	FM 4450	08/27/03
	3012321	FM 4470	07/29/02
	3014692	FM 4470	08/05/03
	3024311	FM 4470	11/01/06
	3026836	FM 4454	07/13/07
	3023458	FM 4450	07/18/06
	3029993	FM 4470	09/21/07
Exterior Research & Design, LLC	2005.U0212.09.05-R3	FM 4470	03/21/13
	U11650.07.09-1	TAS 114	07/15/09
	U0215.05.06-2-R2	ASTM D6222	08/02/10
	02762.03.05-R2	FM 4470	04/01/10
	U41790.05.12-1	ASTM D6222 & TAS 110	05/30/12
	U41790.05.12-2	ASTM D6222 & TAS 110	05/30/12
	U35910.12.11-1	TAS 117	12/21/11
	U35910.12.11-3	ASTM D1878	12/21/11



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APPROVED ASSEMBLIES

Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

FescoBoard

Minimum ³/³ thick N/A N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in ¾" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-120.0 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
H-Shield, ACFoam-II, ISO 95+ GL or ENRGY 3 Minimum 2" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
Dang Dank Dang Dank Drime CECHDOCK Company Ethan Danf Dang	d	

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in 3/4" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld 5S APP

or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S, APP heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-120 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

(Optional) Base Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

Insulfoam EPS

Minimum 2.0" thick N/A N/A

Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

DensDeck, DensDeck Prime

Minimum ¹/₄" thick N/A N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in 3/4" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld 5S APP or

DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180S

APP, DuraWeld 5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-120.0 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

 (Optional) Base Insulation Layer
 Insulation Fasteners (Table 3)
 Fastener Density/ft²

 Insulfoam EPS
 Insulfoam EPS

Minimum 2.0" thick N/A N/A

Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Structodek High Density Fiberboard Roof Insulation

Minimum ½" thick N/A N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in 3/4" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet fully adhered in hot asphalt.

Ply Sheet: (Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180S

APP, DuraWeld 5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Design -120.0 psf (See General Limitation #9.)

Pressure:



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(5): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

(Optional) Base Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

Any Approved XPS

Minimum 1.0" thick N/A N/A

Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

DensDeck, DensDeck Prime

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in 3/4" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld 5S APP

or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-120.0 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(6): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

(Optional) Base Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

ISO 95+ GL

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

Structodek High Density Fiberboard Roof Insulation

Minimum ½" thick N/A N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in 3/4" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

-120.0 psf (See General Limitation #9.)

Pressure:



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Deck Description: Elastizell Lightweight Concrete

System Type A(7): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	<u>Insulation Fasteners</u> (<u>Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
H-Shield, ACFoam-II, ISO 95+ GL		
Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in with OMG OlyBond 500 Adhesive Fastener applied in 3/4" to 1" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld 5S APP

or DuraWeld 4S APP, heat welded to DensDeck, DensDeck Prime or SECUROCK Gypsum-

Fiber Roof Board coverboards only.

Ply Sheet: (Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180S

APP, DuraWeld 5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-120.0 psf (See General Limitation #9.)



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Membrane Type: APP

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(8): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, H-Shield, ENRGY 3, Multi-Max-3, ISO 95+ GL

Minimum 1.5" thick N/A N/A

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

Structodek High Density Fiberboard Roof Insulation

Minimum ½" thick N/A N/A

Note: All insulation shall be adhered to the deck in with Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-127.5 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(9): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²ACFoam-II, H-Shield, ENRGY 3, Multi-Max-3
Minimum 2" thickN/AN/ATop Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

DensDeck, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in with Millennium One Step Foamable Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld 5S APP

or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-157.0 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank

System Type A(10): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

 Base Insulation Layer
 Insulation Fasteners (Table 3)
 Fastener Density/ft²

 ACFoam-II, H-Shield, ENRGY 3, Multi-Max-3
 N/A
 N/A

 Minimum 1.5" thick
 N/A
 N/A

 Top Insulation Layer
 Insulation Fasteners (Table 3)
 Fastener Density/ft²

 Structodek High Density Fiberboard Roof Insulation

Structodek High Density Fiberboard Roof Insulation

Minimum ½" thick N/A N/A

Note: All insulation shall be adhered to the deck in with Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet fully adhered in hot asphalt.

Ply Sheet: (Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180S

APP, DuraWeld 5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, 4M APP or

DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-180.0 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank **System Type A(11):** Insulation adhered with approved adhesive..

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional) Insulation Fasteners (Table 3) Fastener Density/ft²

ACFoam-II, H-Shield, ENRGY 3, Multi-Max-3, ISO 95+ GL

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

Structodek High Density Fiberboard Roof Insulation or Approved High Density Fiberboard Insulation
Minimum ½" thick
N/A
N/A

Note: All insulation shall be adhered to the deck in with Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4MFR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-180.0 psf (See General Limitation #9.)



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Deck Description: 2500 psi structural concrete or concrete plank **System Type A(12):** Insulation adhered with approved adhesive..

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, H-Shield, ENRGY 3, Multi-Max-3 Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	<u>Insulation Fasteners</u> (<u>Table 3)</u>	Fastener Density/ft ²
DensDeck		

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in with Millennium PG-1 Pump Grade Adhesive applied in ½" to ¾" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP Base Sheet is fully adhered with hot asphalt.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4MFR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-180.0 psf (See General Limitation #9.)



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Deck Description: Steel / Concrete

System Type A(13): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	<u>Fastener</u>
	<u>(Table 3)</u>	Density/ft ²
ACFoam-II, ACFoam-III, ISO 95+ GL, JM ISO 3, Multi-Max FA-3		
Minimum 1.5" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	d, DensDeck DuraGuard C	Overlayment

Minimum ½" thick N/A N/A

Note: Insulation shall be adhered to the with 3M CR-20 Roofing Adhesive or TITESET Roofing Adhesive spray applied in 3" to 3½" ribbons spaced 12 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld 5S APP

or DuraWeld 4S APP, heat welded.

Ply Sheet: (Optional) One ply of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP, DuraWeld

5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

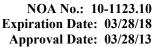
Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-262.5 psf (See General Limitation #9.)



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APP **Membrane Type:** Deck Type 7I: Recover

22 ga. Type B, Grade 33 steel, fastened 6" o.c. with Buildex Tek 5 fasteners to steel supports **Deck Description:**

spaced max. 6 ft o.c.

Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt. System Type B(1):

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener
	<u>(Table 3)</u>	Density/ft ²
ISO 95+ GL, ENRGY 3		
Minimum 2.0" thick	6 with 7	$1:1.6 \text{ ft}^2$
	12 with 13	
ACFoam-II, Mult-Max FA-3		
Minimum 2.0" thick	8 with 9	$1:1.6 \text{ ft}^2$
	11 with 10	
	6 with 7	
	12 with 13	

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard		
Minimum ³ / ₄ " thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Bo	oard or DensDeck DuraGuard	Overlayment
Board		
Minimum ¼" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq² Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of USP Base Sheet is fully adhered with hot asphalt to coverboard.

(Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180SAPP, **Ply Sheet:**

DuraWeld 5S APP or DuraWeld 4S APP, heat welded.



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Membrane: One ply of SafeWeld 180M APP, SafeWeld 180FR APP,USP APP 160M, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

- 67.5 psf (See General Limitation #7).



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Deck Description: 22 ga. Type B, Grade 33 steel, fastened 6" o.c. with Buildex Tek 5 fasteners to steel supports

spaced max. 6 ft o.c.

System Type D(1): One or more layers of insulation and base sheet simultaneously attached.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

Any approved polyisocyanurate Listed in Table 2

Minimum 2.0" thick N/A N/A

(Optional) Top Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DensDeck DuraGuard Overlayment

Board

Minimum ¼" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of USP Base Sheet mechanically fastened to the deck with PlyFast #14 Fastener O

or OMG Heavy Duty fasteners with OMG 3 in. Round Metal Plates, or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates, or PlyFast #14 Fastener T with PlyFast 3" Metal Plate T spaced 6" o.c. in a 4" side lap and 6" o.c. in two, equally spaced, staggered

rows.

Ply Sheet: (Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180S APP,

DuraWeld 5S APP or DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

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-135.0 psf (See General Limitation #7)

Pressure:



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Membrane Type: APP

Deck Type 7I: Recover

Deck Description: Min. 300 psi Elastizell Lightweight Concrete **System Type E(1):** Base sheet mechanically fastened to roof deck.

All General and System limitations apply.

Base Sheet: One ply of USP Base Sheet mechanically attached with Twin Loc-Nails, PlyFast Double

Lock Nail E to engage the existing LWC (min. 1.8-inch embedment)

Or

PlyFast #14 Fastener O or OMG Heavy Duty Fasteners with OMG 3 in. Round Metal Plates, Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates or PlyFast #14 Fastener T with PlyFast 3" Metal Plate T installed through the existing LWC to engage the structural

deck.

Fasteners are to be spaced 9" o.c. in 4" lap and 9" o.c. in two, equally spaced, staggered

rows.

Ply Sheet: (Optional) One or more layers of USP APP 160S, USP APP 160S Plus, SafeWeld 180S or

DuraWeld 4S APP, heat welded.

Membrane: One ply of USP APP 160M, SafeWeld 180M APP, SafeWeld 180FR APP, DuraWeld 4M

APP or DuraWeld 4M FR APP, heat welded.

Surfacing: For use on non FR membranes:

USP #442 Fibered Aluminum Roof Coating applied at a rate of 1.5 gal/sq.

Maximum Design

Pressure:

-60.0 psf (See General Limitation #7)



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RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)

END OF THIS ACCEPTANCE



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